

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P800146

Luminaire Tested: **ARCH2-80-730-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

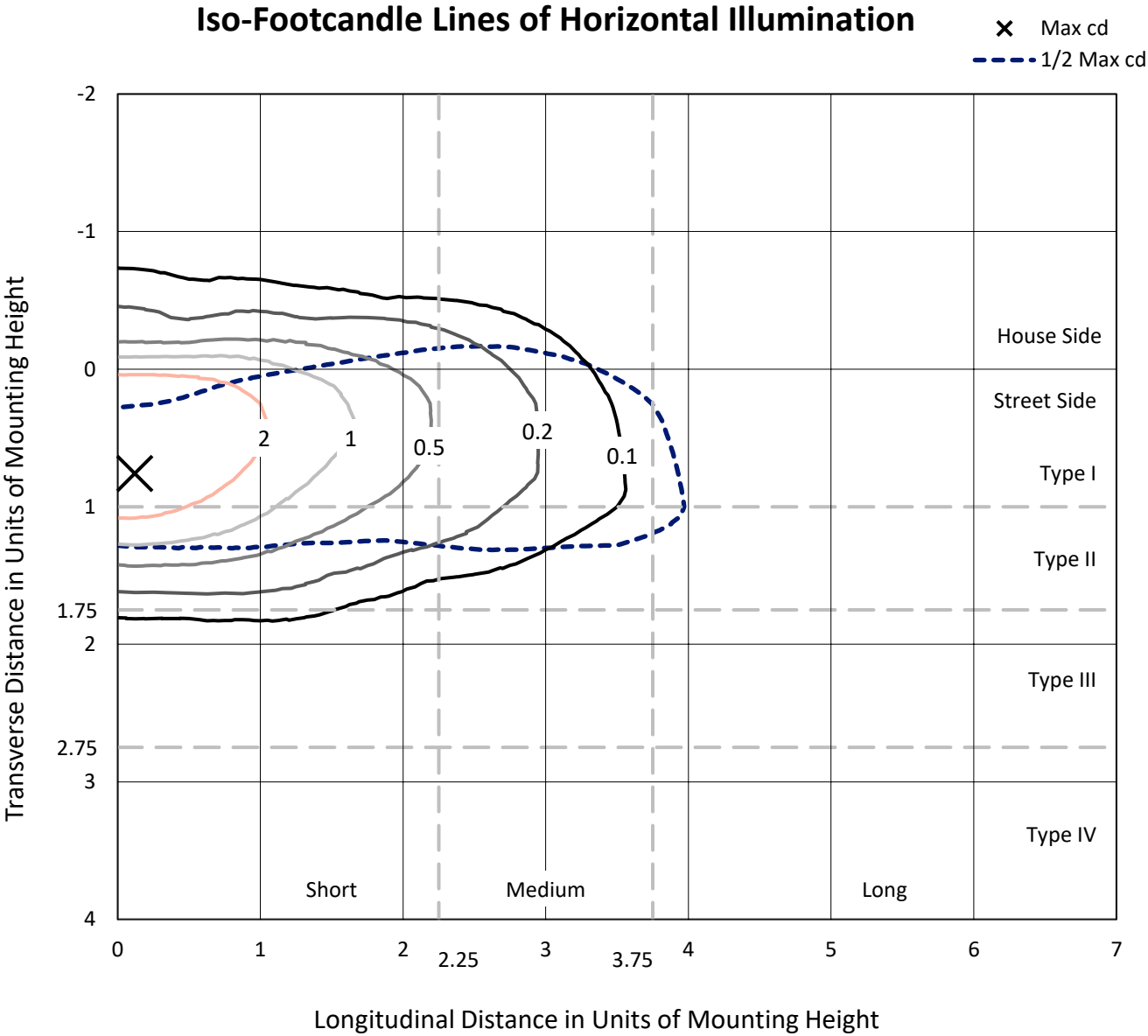
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7821 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 84.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P800146
CATALOG NUMBER: ARCH2-80-730-U-T2R-HSS

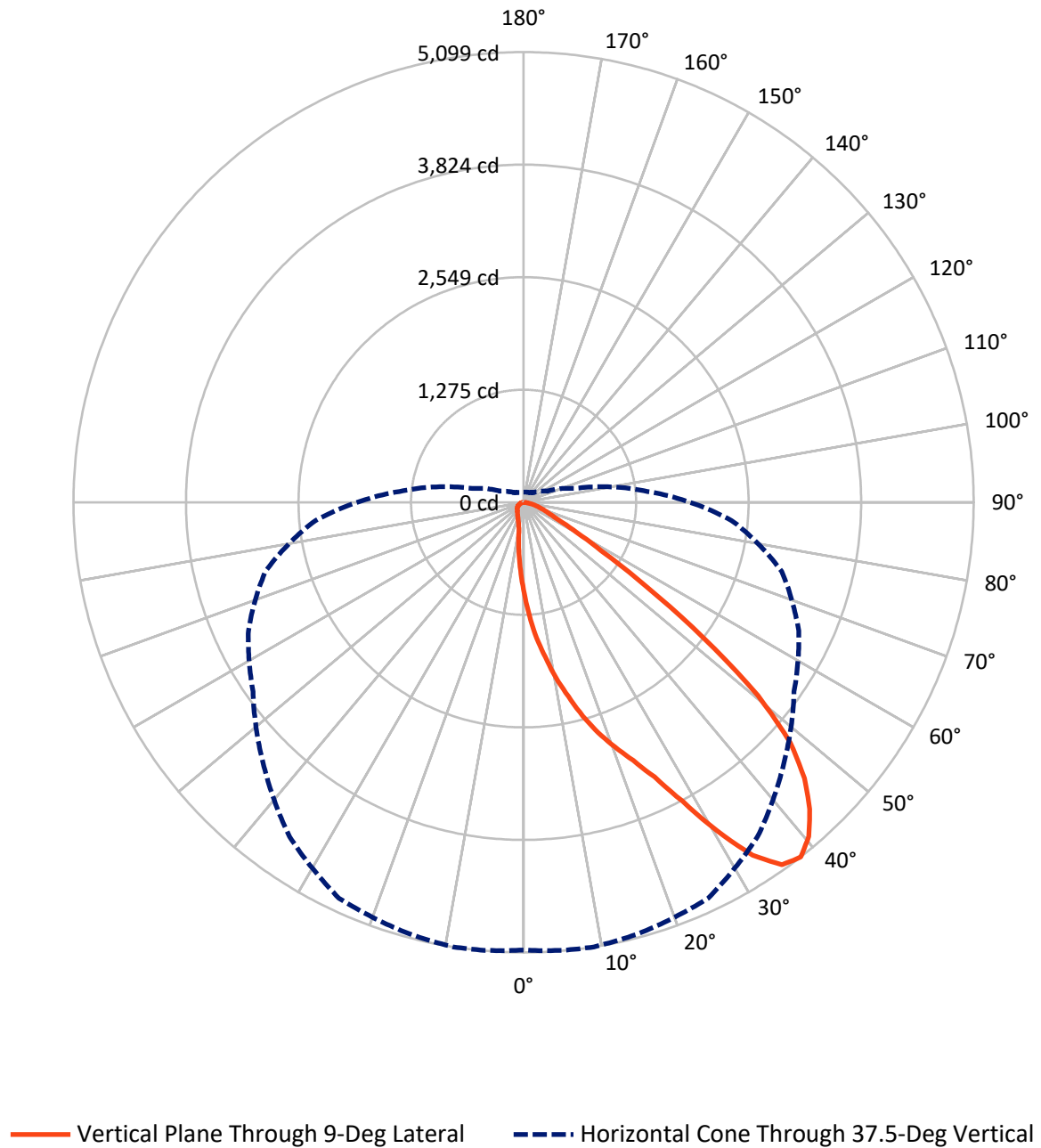


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type II - Short - N/A

REPORT NUMBER: P800146

CATALOG NUMBER: ARCH2-80-730-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P800146

CATALOG NUMBER: ARCH2-80-730-U-T2R-HSS

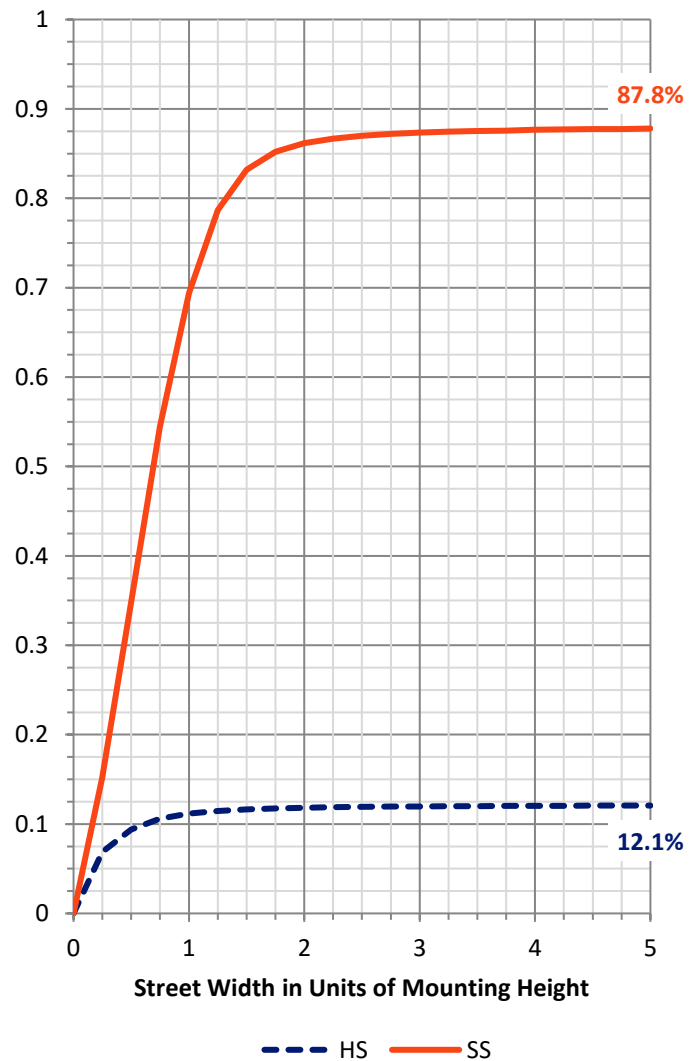
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	951.2	0.0	951.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6869.8	0.0	6869.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	7821.0	0.0	7821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	1.3
10°-20°	361.2	4.6
20°-30°	742.1	9.5
30°-40°	1311.8	16.8
40°-50°	1742.6	22.3
50°-60°	1652.7	21.1
60°-70°	1260.9	16.1
70°-80°	611.3	7.8
80°-90°	34.4	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7821.0	100.0
0°-180°	7821.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800146

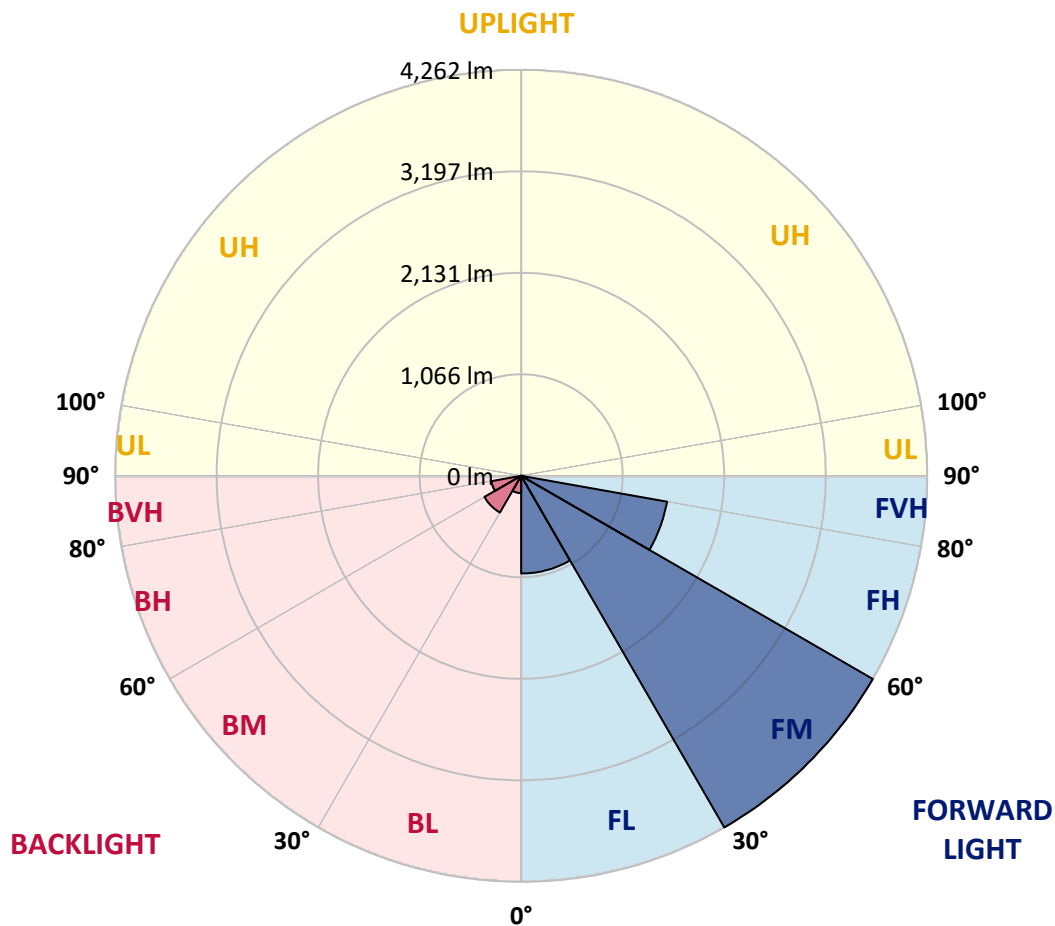
CATALOG NUMBER: ARCH2-80-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1025.7	13.1			
FM	(30°-60°)	4262.1	54.5			
FH	(60°-80°)	1554.8	19.9			G1/1800
FVH	(80°-90°)	27.2	0.3			G1/100
BL	(0°-30°)	181.5	2.3	B1/500		
BM	(30°-60°)	445.1	5.7	B1/1000		
BH	(60°-80°)	317.4	4.1	B1/500		G1/500
BVH	(80°-90°)	7.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P800146

CATALOG NUMBER: ARCH2-80-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8
2.5°	1281.1	1258.6	1284.3	1281.1	1258.6	1244.1	1199.2	1184.7	1131.8	1093.2	1059.5
5°	1544.3	1521.9	1544.3	1537.9	1505.8	1470.5	1396.6	1348.5	1253.8	1170.3	1094.8
7.5°	1762.7	1762.7	1772.3	1773.9	1735.4	1680.8	1589.3	1517.1	1383.8	1255.4	1135.0
10°	1998.7	2000.3	2021.1	2006.7	1955.3	1881.5	1765.9	1674.4	1513.8	1345.3	1173.5
12.5°	2250.7	2252.3	2258.7	2252.3	2191.3	2096.6	1956.9	1836.5	1651.9	1448.0	1226.5
15°	2502.7	2504.3	2512.4	2501.1	2433.7	2322.9	2164.0	2016.3	1798.0	1563.6	1290.7
17.5°	2738.7	2741.9	2748.3	2733.9	2663.3	2531.6	2369.5	2191.3	1953.7	1687.2	1362.9
20°	2950.6	2953.8	2958.6	2939.4	2868.7	2737.1	2562.1	2375.9	2112.6	1814.0	1441.6
22.5°	3164.1	3167.3	3175.4	3149.7	3071.0	2920.1	2748.3	2555.7	2281.2	1953.7	1533.1
25°	3437.0	3440.3	3446.7	3409.8	3302.2	3125.6	2944.2	2746.7	2464.2	2111.0	1645.5
27.5°	3836.8	3833.6	3833.6	3766.1	3581.5	3352.0	3141.7	2941.0	2661.7	2279.6	1769.1
30°	4331.2	4323.2	4318.4	4226.9	3963.6	3607.2	3343.9	3122.4	2851.1	2457.8	1902.3
32.5°	4774.3	4774.3	4764.7	4668.3	4389.0	3950.8	3559.0	3299.0	3034.1	2637.6	2040.4
35°	5036.0	5047.2	5042.4	4970.1	4766.3	4320.0	3849.6	3510.9	3226.7	2825.4	2205.7
37.5°	5071.3	5093.8	5098.6	5055.2	4947.7	4621.8	4172.3	3740.5	3438.6	3027.7	2366.3
40°	4928.4	4976.6	4976.6	4970.1	4931.6	4764.7	4443.6	4006.9	3657.0	3238.0	2528.4
42.5°	4708.5	4758.2	4751.8	4775.9	4766.3	4730.9	4596.1	4255.8	3875.3	3454.7	2676.1
45°	4421.1	4472.5	4459.6	4503.0	4522.3	4560.8	4580.0	4429.1	4090.4	3690.7	2841.5
47.5°	3960.4	4047.1	4066.3	4143.4	4223.7	4344.1	4435.6	4491.8	4291.1	3944.3	3021.3
50°	3279.7	3401.7	3440.3	3602.4	3822.3	4071.2	4218.8	4414.7	4432.4	4204.4	3215.5
52.5°	2348.6	2489.9	2549.3	2815.8	3268.5	3701.9	3968.4	4244.5	4486.9	4453.2	3425.8
55°	1518.7	1639.1	1696.8	1947.3	2549.3	3230.0	3673.0	4024.6	4456.4	4681.2	3666.6
57.5°	935.9	1004.9	1043.5	1258.6	1812.4	2624.7	3286.1	3822.3	4363.3	4878.6	3917.0
60°	630.9	671.0	690.3	791.4	1231.3	1961.7	2754.8	3610.4	4241.3	5011.9	4145.0
62.5°	419.0	431.8	451.1	513.7	812.3	1377.4	2115.8	3231.6	4149.8	5019.9	4313.6
65°	324.3	330.7	338.7	366.0	500.9	963.2	1488.2	2618.3	4013.4	4849.7	4366.5
67.5°	255.2	261.7	271.3	285.8	362.8	653.4	1013.0	1918.4	3734.0	4583.3	4279.8
70°	200.7	205.5	211.9	224.7	282.5	473.6	669.4	1274.6	3170.6	4329.6	4006.9
72.5°	158.9	163.7	170.2	183.0	229.6	346.8	459.1	794.6	2444.9	4019.8	3482.0
75°	125.2	128.4	133.2	146.1	184.6	269.7	311.4	475.2	1661.5	3453.1	2713.0
77.5°	62.6	77.1	88.3	101.1	134.8	186.2	207.1	263.3	701.5	1772.3	1293.9
80°	36.9	44.9	48.2	56.2	88.3	112.4	112.4	106.0	221.5	680.7	528.2
82.5°	20.9	28.9	30.5	32.1	53.0	64.2	51.4	38.5	44.9	228.0	154.1
85°	6.4	9.6	11.2	12.8	17.7	19.3	17.7	16.1	12.8	22.5	14.4
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	3.2	3.2	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P800146

CATALOG NUMBER: ARCH2-80-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8
2.5°	1040.3	1019.4	979.3	942.3	907.0	881.3	857.3	834.8	818.7	805.9	804.3
5°	1054.7	1013.0	935.9	863.7	797.9	743.3	696.7	659.8	632.5	613.2	611.6
7.5°	1074.0	1009.8	892.6	785.0	687.1	608.4	541.0	491.2	455.9	441.5	430.2
10°	1090.0	1006.6	849.2	706.4	577.9	478.4	398.1	348.4	322.7	313.0	308.2
12.5°	1117.3	1009.8	812.3	634.1	483.2	366.0	305.0	277.7	266.5	258.5	256.9
15°	1157.5	1024.2	777.0	563.5	386.9	295.4	260.1	242.4	231.2	229.6	228.0
17.5°	1197.6	1037.1	744.9	491.2	321.1	256.9	232.8	218.3	210.3	208.7	208.7
20°	1244.1	1053.1	709.6	422.2	274.5	231.2	211.9	200.7	191.0	189.4	189.4
22.5°	1298.7	1075.6	675.8	361.2	244.0	211.9	195.9	183.0	175.0	173.4	173.4
25°	1372.6	1109.3	648.6	316.3	223.1	195.9	181.4	170.2	163.7	160.5	160.5
27.5°	1454.4	1155.8	629.3	289.0	208.7	183.0	168.6	158.9	152.5	149.3	149.3
30°	1545.9	1207.2	616.5	277.7	200.7	171.8	158.9	149.3	141.3	139.7	139.7
32.5°	1647.1	1266.6	608.4	279.3	199.1	163.7	149.3	139.7	133.2	130.0	130.0
35°	1759.5	1332.4	603.6	289.0	202.3	157.3	141.3	131.6	125.2	122.0	122.0
37.5°	1884.7	1409.5	603.6	298.6	210.3	155.7	133.2	123.6	118.8	115.6	115.6
40°	2001.9	1491.4	610.0	309.8	218.3	155.7	126.8	118.8	112.4	109.2	109.2
42.5°	2093.4	1537.9	614.8	321.1	223.1	154.1	120.4	112.4	107.6	104.3	104.3
45°	2197.7	1587.7	605.2	325.9	223.1	150.9	115.6	107.6	102.7	99.5	99.5
47.5°	2313.3	1648.7	603.6	329.1	218.3	144.5	110.8	102.7	99.5	96.3	96.3
50°	2430.5	1716.1	606.8	327.5	211.9	134.8	104.3	99.5	94.7	91.5	91.5
52.5°	2563.7	1786.7	613.2	324.3	197.5	123.6	99.5	94.7	89.9	86.7	85.1
55°	2711.4	1863.8	626.1	317.9	178.2	112.4	94.7	89.9	83.5	80.3	78.7
57.5°	2881.6	1958.5	640.5	305.0	157.3	102.7	89.9	83.5	73.8	69.0	67.4
60°	3043.7	2066.1	656.6	274.5	136.5	93.1	85.1	75.5	65.8	62.6	61.0
62.5°	3196.2	2172.0	664.6	219.9	115.6	85.1	80.3	69.0	59.4	56.2	54.6
65°	3294.2	2287.6	647.0	149.3	94.7	78.7	73.8	64.2	54.6	49.8	49.8
67.5°	3300.6	2342.2	586.0	97.9	77.1	70.6	67.4	57.8	48.2	44.9	43.3
70°	3138.4	2260.3	447.9	77.1	64.2	61.0	61.0	51.4	41.7	38.5	36.9
72.5°	2766.0	2001.9	285.8	62.6	54.6	51.4	51.4	43.3	36.9	32.1	30.5
75°	2183.3	1544.3	152.5	51.4	44.9	43.3	40.1	35.3	30.5	27.3	25.7
77.5°	1003.3	680.7	70.6	36.9	33.7	33.7	30.5	25.7	24.1	20.9	20.9
80°	396.5	231.2	35.3	24.1	22.5	22.5	22.5	17.7	17.7	14.4	12.8
82.5°	109.2	48.2	17.7	14.4	14.4	14.4	12.8	11.2	11.2	9.6	9.6
85°	11.2	8.0	8.0	8.0	8.0	6.4	6.4	4.8	3.2	3.2	3.2
87.5°	4.8	4.8	4.8	4.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)